

Title (en)
VARIABLE-FREQUENCY SURFACE ACOUSTIC WAVE E-CIGARETTE

Title (de)
E-ZIGARETTE MIT OBERFLÄCHENSCHALLWELLEN MIT VARIABLER FREQUENZ

Title (fr)
CIGARETTE ÉLECTRONIQUE À ONDES ACOUSTIQUES DE SURFACE À FRÉQUENCE VARIABLE

Publication
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Application
EP 20877513 A 20200325

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Abstract (en)
[origin: EP3858162A1] The present invention discloses a variable-frequency surface acoustic wave electronic cigarette, which includes an atomizer (2). An atomization cavity (213) is disposed in the atomizer (2), and a variable-frequency surface acoustic wave atomization chip (203) is disposed at a lower portion of the atomization cavity (213). An inverted trapezoidal interdigital transducer (2037) is disposed on the variable-frequency surface acoustic wave atomization chip (203). An e-liquid storage cavity (205) is disposed in the atomization cavity (213). A porous ceramic sheet (204) is disposed between the e-liquid storage cavity (205) and the atomization chip (203). The variable-frequency surface acoustic wave electronic cigarette of the present invention can realize any adjustment of the working frequency within a set range, thereby realizing the autonomous regulation and control of a smoke particle size after atomization of the e-liquid.

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Citation (search report)
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• [A] CA 3096355 A1 20191017 - JAPAN TOBACCO INC [JP]
• [A] CN 208353309 U 20190108 - UNIV YANGZHOU
• See references of WO 2021073045A1

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